Attorney Docket No.: 86581-0003
Applicants: Wade M. POTEET et al.
Title: Methods and Apparatus for Molecular
Species Detection, Inspection and Classification
Using Ultrasound Fluorescence
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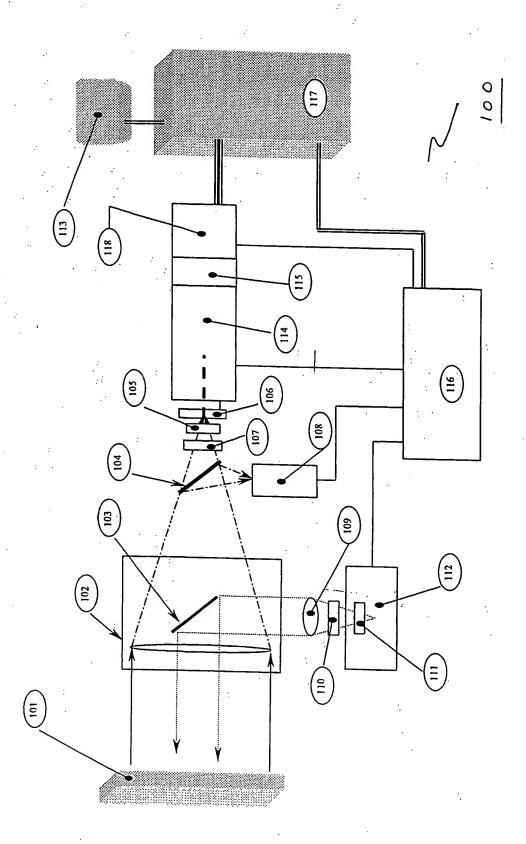


FIGURE 1. Functional Block Diagram: Ultraviolet Fluorescence System

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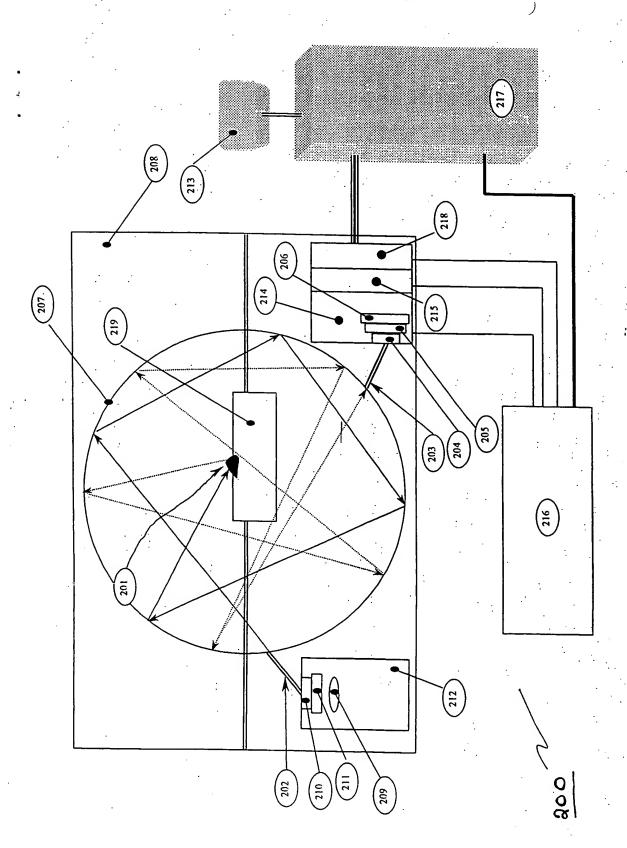


FIGURE 2. Functional Block Diagram: Ultraviolet Fluorescence System 2

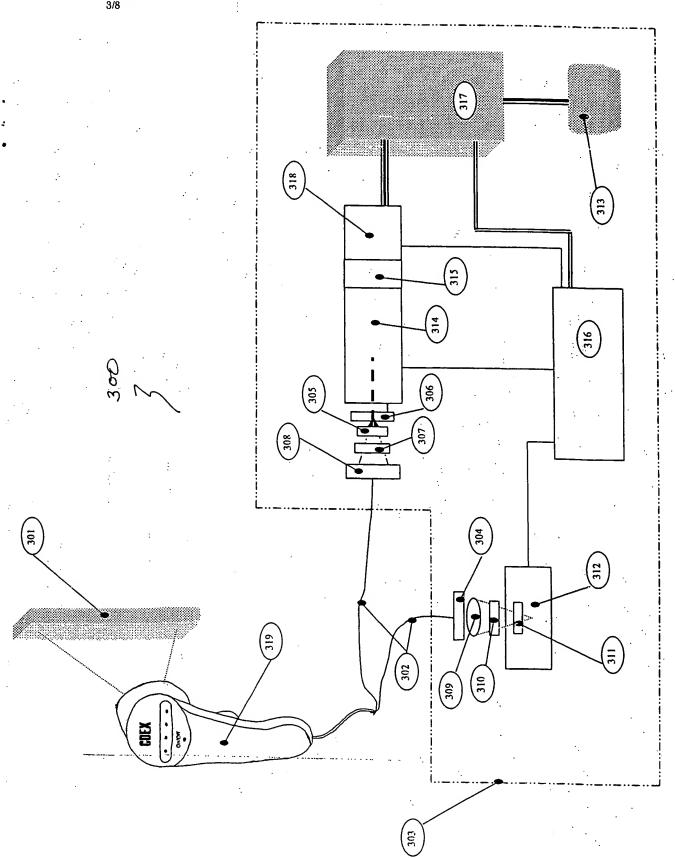


FIGURE 3. Functional Block Diagram: Ultraviolet Fluorescence System

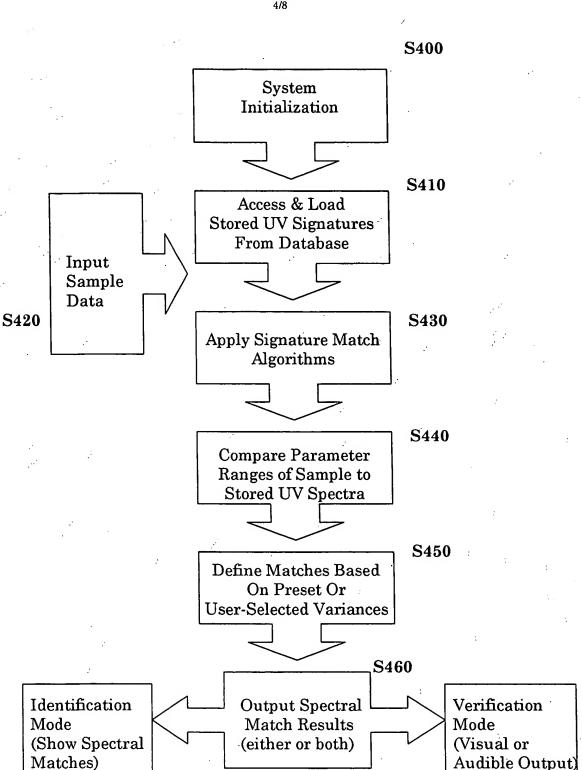


Figure 4.

S480

S470

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## C4-Flu r meter

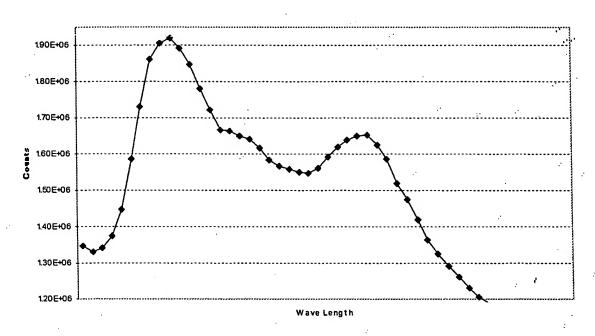


FIGURE 5. UV Spectrum of C4 Explosive

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## Cocaine - Fluorometer

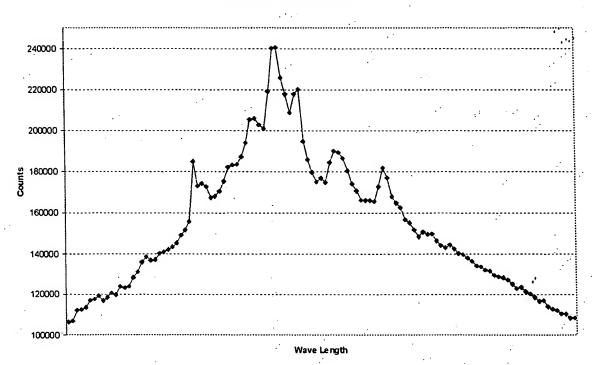


FIGURE 6. UV Spectrum of Cocaine

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TATP - Fluorometer

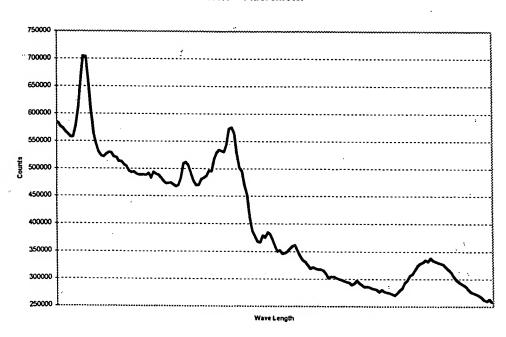


FIGURE 7. UV Spectrum of TATP Explosive

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TNT - Flu rometer

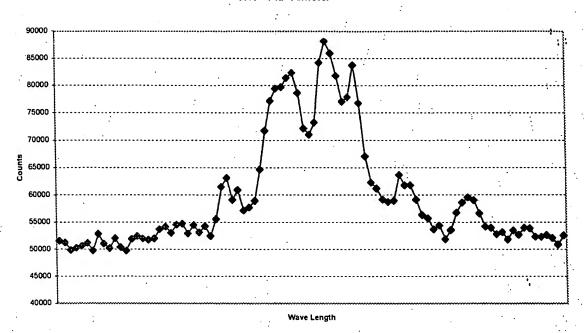


FIGURE 8. UV Spectrum of US TNT Explosive